

Bone Mineral Density of the Proximal Tibia in Wild Type and Btk Knockout Mice

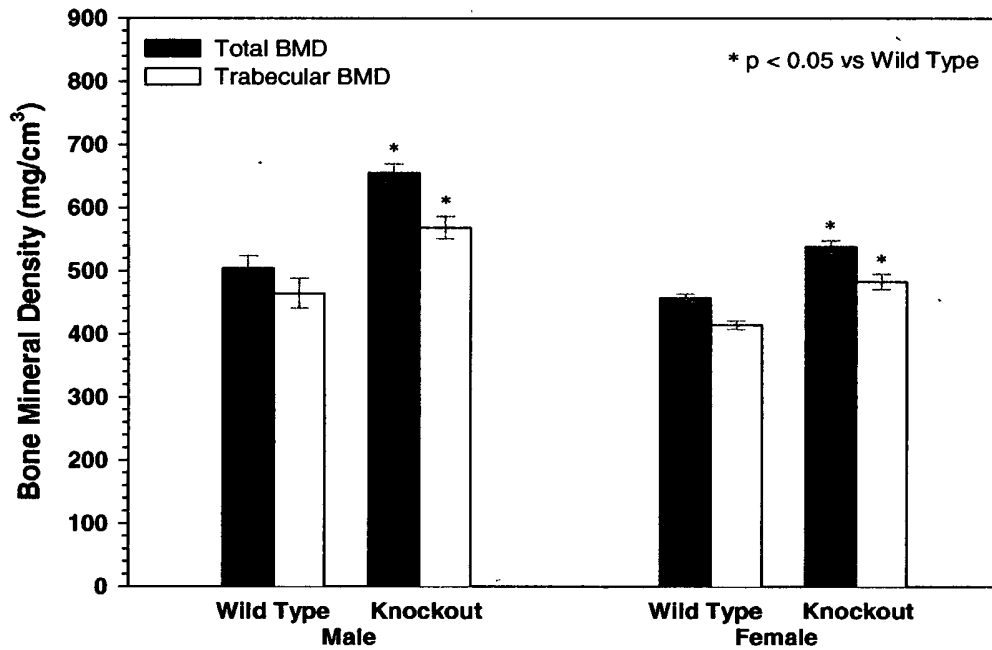


FIG. 1

Bone Mineral Density of the Proximal Tibia in Wild Type and Btk^{xld} Mice

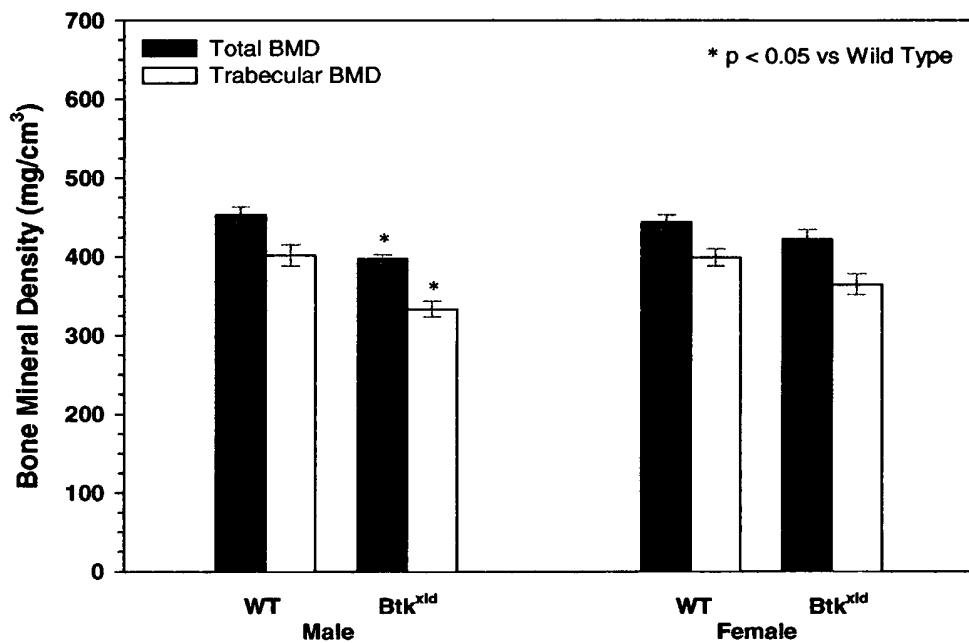


FIG. 2

1960

BTK Constructs

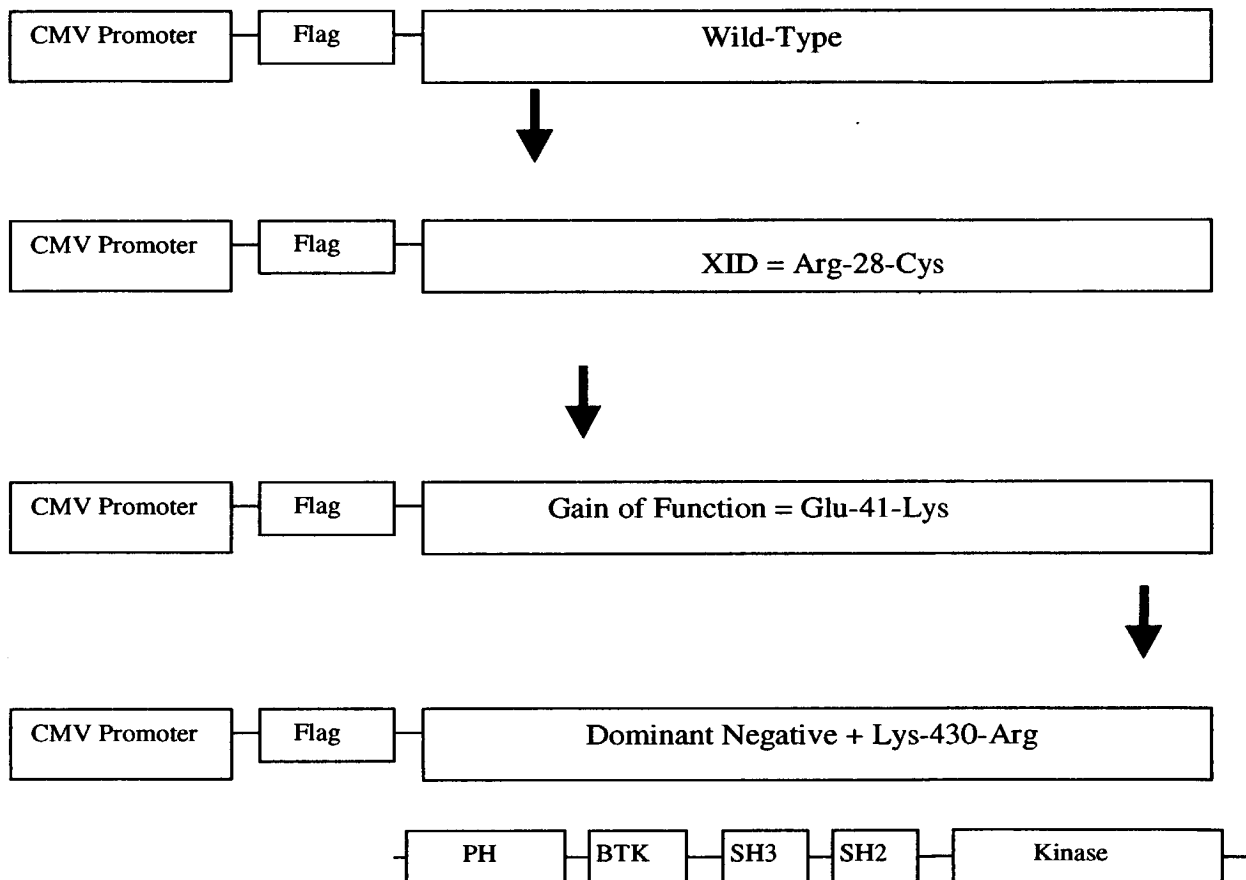
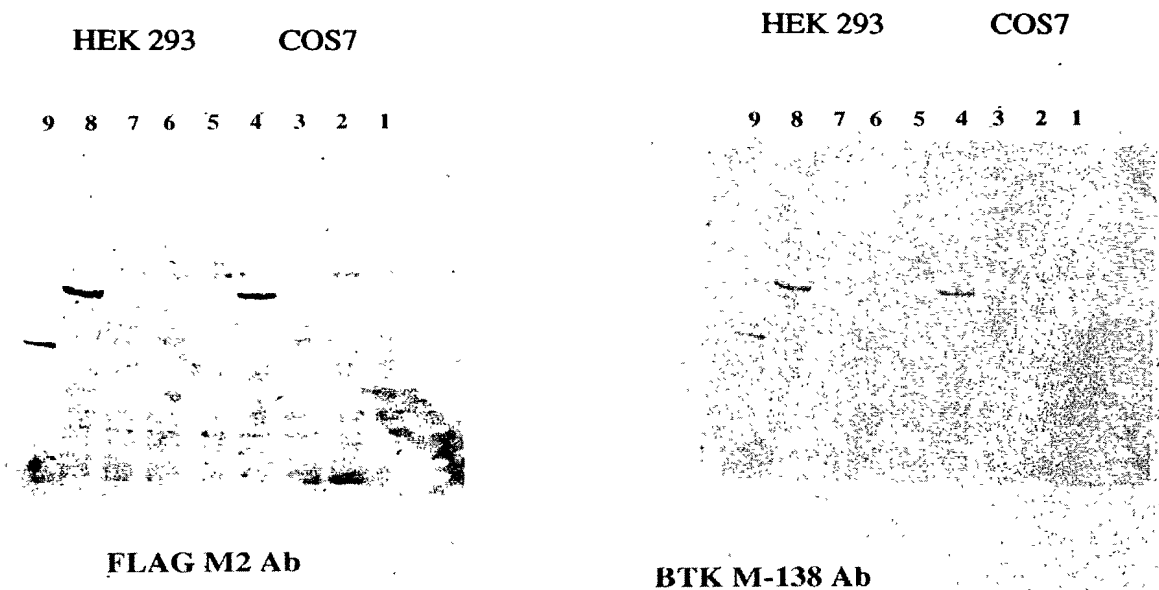


FIG. 4

Mu BTK wt tagged/untagged HEK/COS transient Western



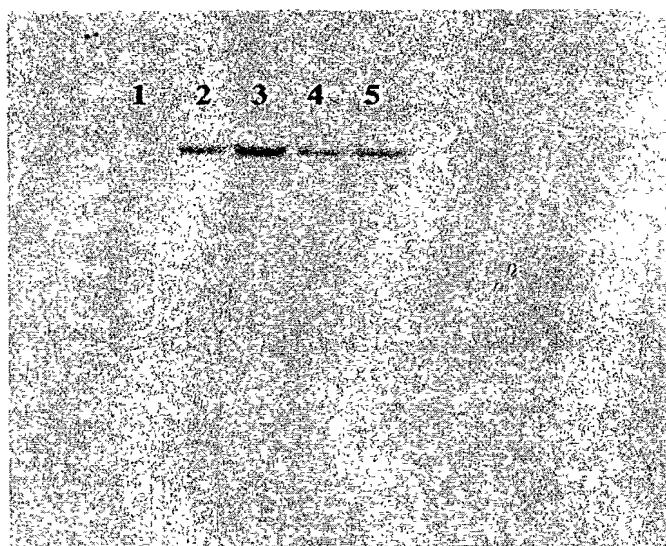
Legend:

Lanes 1 and 5: pcDNA
Lanes 2 and 6: BTK wt/pcDNA
Lanes 3 and 7: p3XFLAG
Lanes 4 and 8: BTK wt/p3XFLAG
Lane 9: BAP FLAG control

FIG. 5



BTK-FLAG mutant RAW 264.7 stable mix whole cell lysates



α -FLAG Ab

Legend:

- Lane 1: p3xFLAG vector control
- Lane 2: wt BTK in p3xFLAG
- Lane 3: R28C btk in p3XFLAG
- Lane 4: E41K btk in p3XFLAG
- Lane 5: K430R btk in p3XFLAG

FIG. 6



Phosphorylation Analysis of BTK Mutants



FIG. 7a

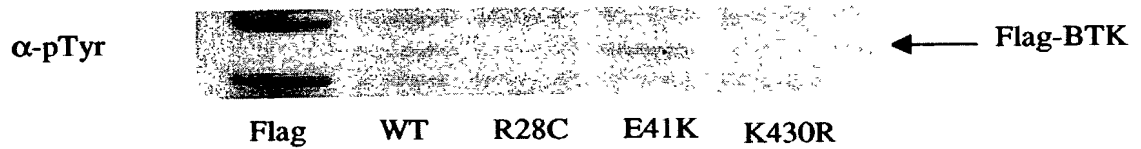


FIG. 7b

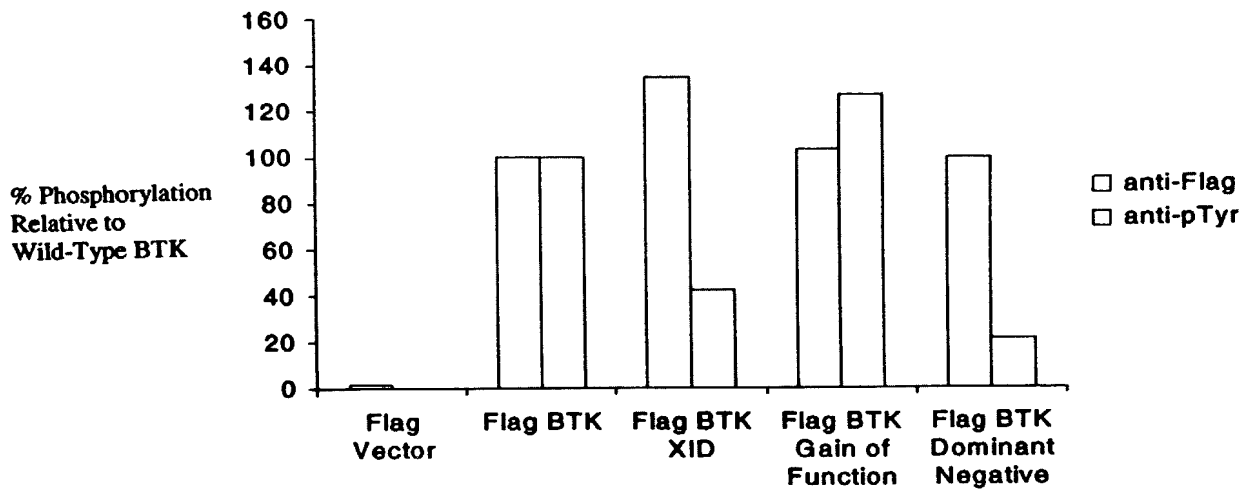


FIG. 7c

Total Tyrosine Phosphorylation

Vector WT XID G of F DN

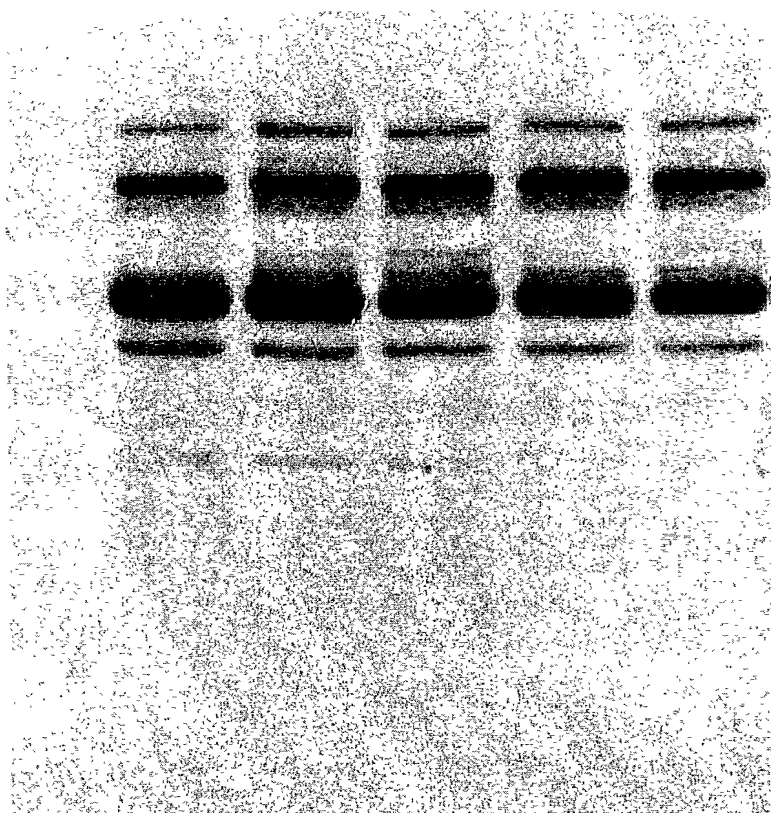


FIG. 8



BTK mutant immunoprecipitation kinase assays
(stable pools, unstimulated)

rBTK SLP76 Mock IP Vector Wild Type R28C (xid mutant) E41K K430R

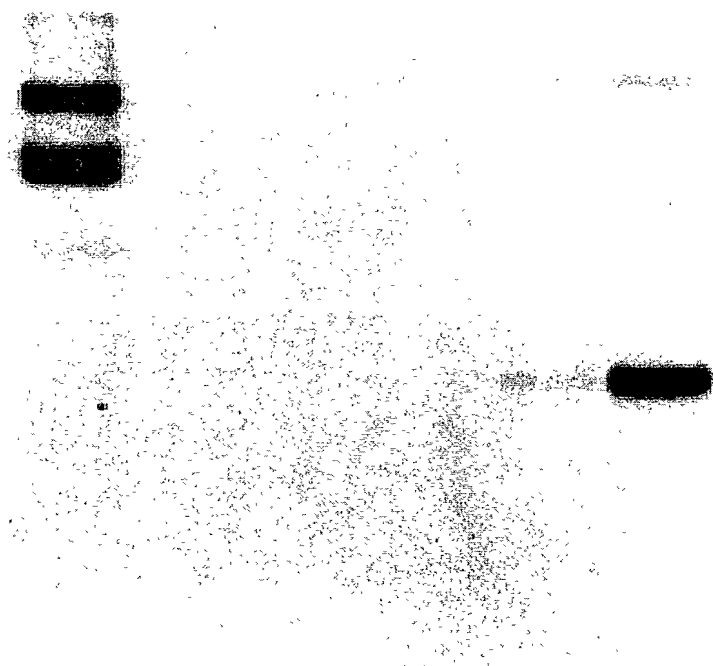


FIG. 9

Actin staining of Btk/RAW cell stable cell lines

Btk wt

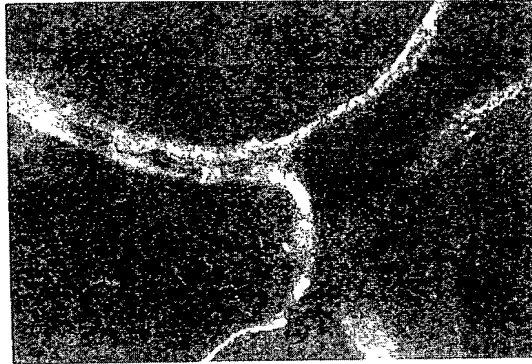


FIG. 10a

R28C-xid

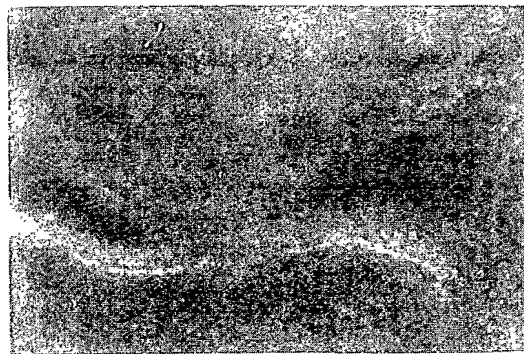


FIG. 10b

E41K-gain of function



FIG. 10c